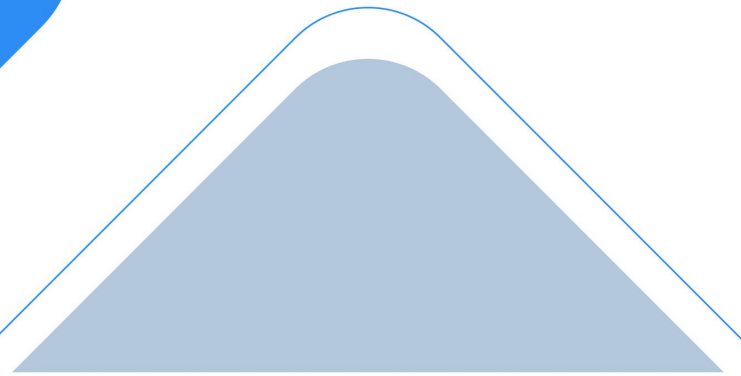# AI Workplace Sensor

Featuring LoRaWAN®

VS121

Milesight VS121, based on Artificial Intelligence (AI) technology, is an AI workplace sensor designed to monitor occupancy & utilization in modern workspace, which can reach up to 95% recognition rate. With the ability to sense from up to more than 78 m^2, few sensors are needed to cover the same area, decreasing the deploy costs for users. Only counter values are transmitted over LoRaWAN® network, which can prevent the privacy concerns. Based on standard LoRaWAN® protocol, VS121 can work with Milesight LoRaWAN® gateway and mainstream LoRaWAN® network servers. With easy installation, VS121 sensor has great use in shops, malls, offices, exhibitions, etc.

Milesight VS121 sensors are equipped with Wi-Fi for easy configuration without any configuration tools.

◆ Features

➢ Recognition rate is up to 95% based on advanced AI identification and analysis technology and wide detection range

➢ Support up to 12 mapped regions for detection

➢ No image data is collected, free from privacy concerns

➢ Equipped with Wi-Fi for web GUI configuration

➢ Function well with standard LoRaWAN® gateways and network servers

◆ Applications

➢ Determine the number of people in specific areas

➢ Flow detection in shops and malls

➢ Occupancy detection in offices

◆ Specifications

LoRaWAN	
Protocol	LoRaWAN®
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923
Tx Power	16 dBm (868 MHz)/20 dBm (915 MHz)/19 dBm (470 MHz)
Sensitivity	-137 dBm @300bps
Mode	OTAA/ABP Class C
People Counting	
Field of View	190 ° Horizontal, 112 ° Vertical
Recognition Range	based on a radius of 5 meters (At the height of 3m)
Recognition Rate	>95%
Advanced Custom Setting	Up to 12 mapped regions for detection
Interface	
Wi-Fi	IEEE 802.11 b/g/n, 2.4GHz, only support configuration
Button	1 × Reset Button, 1 × Wi-Fi Button
LED Indicators	1 × Wi-Fi
Power Input	1 × Type-C
Physical Characteristics	
Power Supply	5V / 1.5A by Type-C Port
Operating Temperature	-5°C ~ +55°C
Storage Temperature	-20°C ~ +60°C
Relative Humidity	0 ~ 95% (Non-condensing)
Color	Black/White (Optional)
Dimension	85 × 85 × 20 mm (3.35 × 3.35 × 0.79 in)
Installation	Ceiling Mounting